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Breeding and Selecting Crops for Insect Pest Resistance January 1983 - March 1989

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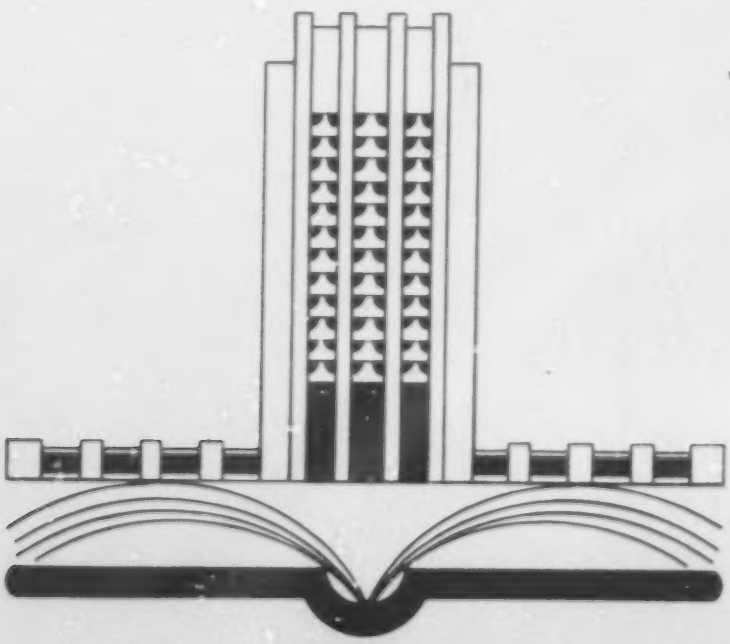

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BREEDING AND SELECTING CROPS FOR INSECT PEST RESISTANCE

SEARCH STRATEGY

Line	Command
1.	SS SH=F200 AND SH=F821
2.	SS S3 AND RESISTAN?
3.	L5
4.	S S6 NOT REGISTRATION
5.	SS S7 AND (CROP? OR CORN OR MAIZE OR SOYBEAN? OR WHEAT OR CEREAL? OR GRAIN? OR SORGHUM? OR MILLET? OR OATS OR VEGETABLES OR SUGARBEETS OR COTTON)
6.	SS S7 AND (ALFALFA OR SUNFLOWER? OR PEANUT? OR PEAS OR BEANS)
7.	C21 OR 27
8.	S S28 NOT FRUIT?
9.	L29
10.	S S30 AND UD=8301:9999
11.	L31/TI,DE

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Sichkar, V.I. ; Levitsky, A.P.~Grikun, O.A.~Lobko, V.N.~Marj'ushkin, V.F. Ames : The Service. Soybean genetics newsletter - United States, Agricultural Research Service. Apr 1983. v. 10. p. 123-125. Includes references. (NAL Call No.: aSB205.S7S6).

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Expression and inheritance of resistance of 'Marquillo' wheat to Hessian fly biotype D.
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Feeding activity of Sitophilus zeamais (Coleoptera: Curculionidae) on resistant and susceptible corn genotypes.
EVETEX. Tipping, P.W. ; Rodriguez, J.G.~Poneleit, C.G.~Legg, D.E. College Park, Md. : Entomological Society of America. Environmental entomology. June 1986. v. 15 (3). p. 654-658. ill. Includes references. (NAL Call No.: DNAL QL461.E532).

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Feeding activity of the maize weevil (Coleoptera: Curculionidae) on two dent corn lines and some of their mutants.
JEENAI. Tipping, P.W. ; Rodriguez, J.G.~Poneleit, C.G.~Legg, D.E. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1988. v. 81 (3). p. 830-833. ill. Includes references. (NAL Call No.: DNAL 421 J822).
Abstract: Corn genotypes that naturally differ only in their endosperm constitution because of mutation were used to examine the feeding and oviposition activities of the maize weevil (MW), Sitophilus zeamais Motschulsky. The genotypes were A632 (resistant to MW) and W64A (susceptible) and their associated mutants. Differences in the amounts of shallow and deep feeding by MW were found to be consistent within a corn genotypic group with genetically identical pericarp tissue, despite quite different endosperm types. Oviposition was more highly correlated with the number of deep feeding sites in the A632 group and with the number of shallow sites in the W64A group. Feeding activity appeared to be higher in the W64A group having thefloury-2 and opaque-2 mutants, which have higher than normal lysine and tryptophan in the endosperm. The waxy and amylose extender mutants, which are thought tocontain greater than normal amounts of feeding stimulants and deterrents, did not affect feeding activity and oviposition. Endosperm characteristics may have influenced the texture of the pericarp in some cases.

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Feeding behavior, fecundity, and honeydew production of two biotypes of greenbug (Homoptera: Aphididae) on resistant and susceptible wheat.
EVETEX. Ryan, J.D. ; Dorschner, K.W.~Girma, M.~Johnson, R.C.~Eikenbary, R.D. College Park, Md. : Entomological Society of America. Environmental entomology. June 1987. v. 16 (3). p. 757-763. Includes references. (NAL Call No.: DNAL QL461.E532).

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Feeding responses of fall armyworm larvae on excised green and yellow whorl tissue of resistant and susceptible corn.
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Field evaluation of soybeans for Mexican bean beetle resistance. I. Maturity groups VI, VII, and VIII.
CRPSAY. Kraemer, M.E. ; Rangappa, M.~Benepal, P.S.~Mebrahtu, T. Madison, Wis. : Crop Science Society of America. Crop science. May/June 1988. v. 28 (3). p. 497-499. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Field performance of some new cotton strains with resistance to Heliothis spp.
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Field resistance to Heliothis species in cotton strains with genetically differing resistance backgrounds.
BCOPB. Stringer, S.J. ; Jones, J.E. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. 1985. p. 388-390. Includes 9 references. (NAL Call No.: DNAL SB249.N6).

0115
Foliage consumption and development of the fall armyworm (Lepidoptera: Noctuidae) as affected by the interactions of a parasitoid, Campoletis sonorensis (Hymenoptera: Ichneumonidae), and resistant corn genotypes.
EVETEX. Isenhour, D.J. ; Wiseman, B.R. College Park, Md. : Entomological Society of America. Environmental entomology. Oct 1987. v. 16 (5). p. 1181-1184. Includes references. (NAL Call No.: DNAL QL461.E532).

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Foliage consumption and larval development of parasitized and unparasitized soybean looper, Pseudoplusia includens (Lepidoptera: Noctuidae), reared on a resistant soybean genotype and effects on an associated parasitoid, Copidosoma truncatellum (Hymenoptera: Encyrtidae).
ETPGA. Beach, R.M. ; Todd, J.W. Paris : Lavoisier Abonnements. Entomophaga. 1986. v. 31 (3). p. 237-242. Includes references. (NAL Call No.: DNAL 421 EN835).

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Free amino acids in the phloem sap from oats and barley resistant to Rhopalosiphum padi.
PYTCA. Weibull, J.H.W. Oxford : Pergamon Press. Phytochemistry. 1988. v. 27 (7). p. 2069-2072. Includes references. (NAL Call No.: DNAL 450 P562p).

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Further differentiation of genetic factors in wheat for resistance to the Hessian fly by C.A. Suneson and W.B. Noble. -.
Suneson, C. A. Washington, D.C. U.S. Dept. of Agriculture 1950. 8 p. --. Bibliography: p. 7-8. (NAL Call No.: Fiche S-69 no.1004).

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Further differentiation of genetic factors in wheat for resistance to the Hessian fly /by C.A. Suneson and W.B. Noble.
Suneson, Coit A. 1903-. ; Noble, W. B.; 1898-. Washington : U.S. Dept. of Agriculture, 1950. Caption title. 8 p. ; 23 cm. Literature cited: p. 7-8. (NAL Call No.: DNAL 1 Ag84Te no.1004).

0120
Gene H16 in wheat for resistance to Hessian fly.
CRPSAY. Patterson, F.L. ; Foster, J.E.~Ohm, H.W. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1988. v. 28 (4). p. 652-654. Includes references. (NAL Call No.: DNAL 64.8 C883).
PI 94587 durum wheat, Triticum durum Desf., has resistance to biotype L of Hessian fly, Mayetiola destructor (Say) that has not been genetically characterized. Two genes, H6 and H11 from PI 94587, have been transferred into separate lines and characterized previously. Lines with H6 or H11 do not have resistance to biotype L that PI 94587 has. Our objectives were to transfer the gene(s) responsible for resistance to biotype L from PI 94587 to a susceptible line, and to determine if the gene(s) was different from known genes providing resistance to biotype L. We used standard greenhouse and growth chamber methods of analysis to determine resistance of seedling progenies to biotypes D and L of Hessian fly. A single partially dominant gene pair providing resistance to biotype L was transferred from PI94 587 to a previously susceptible durum wheat line ND D6647. Genetic studies indicated the new gene was not H9, H14, or H15. Reactions to biotypes, B, C, D, and L indicated it was not H10, or the 'Marquillo' gene. The newly isolated gene is designated H16.

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Genetic analysis of resistance to corn leaf aphid in barley.
Singh, G. ; Verma, M.M.~Virk, D.S. Karnal : All India Coordinated Barley Improvement Project, ICAR, IARI Regional Station, 1982? . Proceedings of First National Symposium on Barley, February 24-27, 1979 / sponsored by ICAR, New Delhi ; chief editor, Mahabal Ram. p. 116-121. Includes references. (NAL Call No.: DNAL SB191.B2N3 1979).

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Genetic analysis of shootfly resistance in relation to growth stages in Sorghum.
ZEPZA. Biradar, S.G. ; Borikar, S.T. Berlin, W. Ger. : Paul Parey. Zeitschrift fur Pflanzenzuchtung = Journal of plant breeding. Aug 1985. v. 95 (2). p. 173-178. Includes references. (NAL Call No.: DNAL 450 Z36).

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Genetic analysis of trichome characters associated with resistance to jassid (Empoasca kerri Pruthi) in peanut.
PNTSB. Dwivedi, S.L. ; Amin, P.W.~Rasheedunisa~Nigam, S.N.~Nagabhushanam, G.V.S.~Rao, V.R.~Gibbons, R.W. Raleigh : American Peanut Research and Education Society. Peanut science. Jan/June 1986. v. 13 (1). p. 15-18. Includes references. (NAL Call No.: DNAL SB351.P3P39).

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A genetic and breeding study of pink bollworm resistance and agronomic properties in cotton (Pectinophora gossypiella, Gossypium hirsutum).
Wilson, F.D.CRPSA. .; George, B.W. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 1-4. Includes references. (NAL Call No.: 64.8 C883).

0125
Genetic variability in maize for maysin content (Antibiosis, host plant resistance, Heliothis zea).
Widstrom, N.W.CRPSA. ; Wiseman, B.R.~McMillian, W.W.~Elliger, C.A.~Waiss, A.C. Jr. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 120-122. Includes references. (NAL Call No.: 64.8 C883).

0126
Genetic variability in the F3 progenies for shootfly resistance in grain sorghum.
IJASA3. Paul, M.D. ; Kulkarini, N.~Murthy, K.N. New Delhi : Indian Council of Agricultural Research. The Indian journal of agricultural sciences. Apr 1984. v. 54 (4). p. 253-255. Includes references. (NAL Call No.: DNAL 22 AG83I).

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Genetic variation of stem-borer resistance and tolerance in three sorghum crosses.
Pathak, R.S. Oxford, Eng. : Pergamon Press. Insect science and its application. 1985. v. 6 (3). p. 359-364. Includes references. (NAL Call No.: DNAL QL461.I57).

0128
Genetics of host plant resistance in food crops with special reference to sorchum stem-borers (Chilo partellus, Sesamia calamistis, Eldana saccharina, Busseola fusca).
Pathak, R.S. ; Olela, J.C. Oxford : Pergamon Press. Insect science and its application. 1982(pub. 1983). Crop-borers and emerging strategies for their control. Proceedings of the International Study Workshop at the International Centre of Insect Physiology and Ecology, Mbita Point Field Station, Kenya, 1982. v. 4 (1/2). p. 127-134. Includes references. (NAL Call No.: QL461.I57).

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Greenbug nonpreference for bloomless sorghum.
CRPSAY. Weibel, D.E. ; Starks, K.J. Madison, Wis. : Crop Science Society of America. Crop science. Nov/Dec 1986. v. 26 (6). p. 1151-1153. Includes references. (NAL Call No.: DNAL 64.8 C883).

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Greenbugs (Homoptera: Aphididae) plant resistance in small grains and sorghum to biotype E (Schizaphis graminum).
Starks, K.J.JEENA. ; Burton, R.L.~Merkle, D.G. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 877-880. Includes references. (NAL Call No.: 421 J822).

0131
Greenhouse technique for evaluating resistance to the bandedwinged whitefly (Homoptera: Aleyrodidae) used to evaluate thirty-five foreign cotton cultivars (Trialeurodes abutilonea, southeastern USA).
Lambert, L.JEENA. ; Jenkins, J.N.~Parrott, W.L.~McCarty, J.C. College Park : Entomological Society of America. Journal of economic entomology. Dec 1982. v. 75 (6). p. 1166-1168. 7 ref. (NAL Call No.: 421 J822).

0132
Hairiness in relation to resistance to jassid (Amrasca devastans Distant) and other insect pests and quality characters in cotton (Gossypium spp.)--a review (Insect resistant varieties).
Bhat, M.G. ; Joshi, A.B.~Singh, M. Karnal : The Centre. Agricultural reviews - Agricultural Research Communication Centre. Jan 1982. Literature review. v. 3 (1). p. 1-8. Includes references. (NAL Call No.: S542.I4A4).

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The utility of the embryo count method in characterizing cereal crops for resistance to Diuraphis noxia.
SATTA. Butts, P.A. ; Pakendorf, K.W. Pretoria : The Department. Technical communication - South Africa, Department of Agriculture. June 1984. (191). p. 53-57. Includes 3 references. (NAL Call No.: DNAL 24 SO863).

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Variations in feeding behavior, fecundity, and damage of biotypes B and E of Schizaphis graminum (Homoptera: Aphididae) on three wheat genotypes.
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0316
Varietal resistance in sorghum to midge, Contarinia sorghicola Coquillett (Diptera: Cecidomyiidae).
Singh, B.U. Oxford, Eng. : Pergamon Press. Insect science and its application. Literature review. 1987. v. 8 (2). p. 129-144. Includes references. (NAL Call No.: DNAL QL461.I57).

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Varietal resistance in the integrated pest management of cowpea pests.
Jackai, L.E.N. ; Singh, S.R. Oxford : Pergamon Press. Insect science and its application. 1982(pub. 1983). Crop-borers and emerging strategies for their control. Proceedings of the International Study Workshop at the International Centre of Insect Physiology and Ecology, Mbita Point Field Station, Kenya. 1982. v. 4 (1/2). p. 199-204. Includes references. (NAL Call No.: QL461.I57).

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Volatile monoterpenes collected from the air surrounding flower buds of seven cotton genotypes.
CRPSAY. Chang, J.F. ; Benedict, J.H.~Payne, T.L.~Camp, B.J. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1988. v. 28 (4). p. 685-688. Includes references. (NAL Call No.: DNAL 64.8 C883).
Some volatile monoterpenes released by cotton (Gossypium hirsutum L.) are olfactory cues to boll weevils (Anthonomous grandis Boheman) and some parasites. However, literature examined showed no studies that described or compared the monoterpene odor of different cotton genotypes at different stages of growth or in different environments. The objective of our study was to determine the monoterpene composition of the air surrounding flower buds of five cotton genotypes ('CAMD-E', 'SP-37', STV-213', STV-213 glandless, RDC-102 glandless, HG-1, and LEBD) grown under normal agronomic practices at College Station and Corpus Christi, TX. The monoterpenes were

collected from the air surrounding excised buds of each genotype with a Porap ak Q effluvial collection system. The quantity of each monoterpene was determined with capillary column gas chromatography utilizing purified standards. The most abundant monoterpenes collected were alpha-pinene, beta-pinene, beta-myrcene, d-limonene, and beta-ocimene. The total quantity of these five monoterpenes was greater for buds of glanded genotypes than for buds of glandless genotypes. Ratios of the five monoterpenes provided a relatively characteristic chemical profile for each genotype. Quantities and ratios of the five monoterpenes collected from buds were dynamic in that they fluctuated with the age of the cotton plant and the environment in which the plants were grown. These results indicate that the five monoterpenes composing, in part, the odor of commercial upland cotton, may differ spatially, temporally, and genetically. This suggests that researchers attempting to identify attractive plant odors should simultaneously compare insect responses and plant odor composition.

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Wheat breeding for resistance to Diuraphis noxia: methodology and progress.
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Wheat genes conditioning resistance to the Hessian fly (Diptera: Cecidomyiidae) in Morocco.
JEENAI, El Bouhssini, M. ; Amri, A.-Hatchett, J.H. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1988. v. 81 (2). p. 709-712. Includes references. (NAL Call No.: DNAL 421 J822).

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Winter wheat resistance to the grain aphid Sitobion avenae (Fabr.) (Homoptera, Aphididae).
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Yield losses in resistant and susceptible varieties of rice in Nigeria due to Chilo zacconius and other stem borers (Insect pests).
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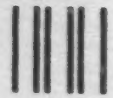

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